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Response dated May 13, 2005 Reply to Office Action mailed February 14, 2005

## AMENDMENT TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

## Listing of Claims

## 1-24. (Canceled)

- (Original) A process for making a propylene stream and a propane stream from an 25. oxygenate feed stream comprising the steps of:
  - contacting an oxygenate feed stream with a molecular sieve catalyst under conditions sufficient to make a first stream, the first stream comprises, propylene, propane and dimethyl ether;
  - separating at least a majority of propane in the first stream from **(b)** propylene in the first stream to form a propylene product stream; and
  - adsorbing dimethyl ether from propane with a crystalline microporous material that preferentially adsorbs dimethyl ether over propane to form a propane stream.
- (Original) The process of claim 25, further comprising the step of desorbing the dimethyl 26. ether from the adsorbent bed.
- (Original) The process of claim 26, wherein the steps of adsorbing and desorbing are in a 27. kinetic-based pressure and/or temperature swing adsorption process.

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- 28. (Original) The process of claim 27, wherein the crystalline microporous material preferentially adsorbs dimethyl ether within an adsorption time of about 120 seconds or less.
- (Original) The process of claim 28, wherein the adsorption time is about 90 seconds or less.
- 30. (Original) The process of claim 28, wherein the adsorption time is about 60 seconds or less.
- 31. (Original) The process of claim 25, wherein the step of (c) adsorbing occurs within a temperature ranging from about 273K to about 523K.
- 32. (Original) The process of claim 25, wherein the step (c) of adsorbing occurs within a pressure ranging from about 100 kPa to about 2000 kPa.
- 33. (Original) The process of claim 25, wherein the first stream is in a vapor phase during the step (c) of adsorbing.
- 34. (Original) The process of claim 25, wherein the first stream further comprises C4+ hydrocarbons.
- 35. (Original) The process of claim 25, wherein the crystalline microporous material has a system of three interconnecting 8-membered ring channels.
- 36. (Original) The process of claim 25, wherein the first stream comprises methanol during the step (b) of separating.

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- 37. (Original) The process of claim 36, wherein the first stream comprises water during the step (b) of separating.
- 38. (Original) A process for producing polypropylene comprising polymerizing the propylene product stream produced in claim 25 to produce polypropylene.

39-75. (Canceled)